



City of Miami Beach

Capital Improvement Projects Office

Community Design Workshop #2

City Center – Neighborhood #9

Right of Way Infrastructure Improvement

June 30th, 2005



City Center – Project Team



Chen & Associates

- Ben Chen, PE, PhD – Project Director
- Jason McClair, PE – Project Manager
- Oscar Bello, PE – Project Engineer



Civic Design Associates

- Jim Hill, AIA, AICP – Project Architect
- Tim Hansen, ASLA – Landscape Architect

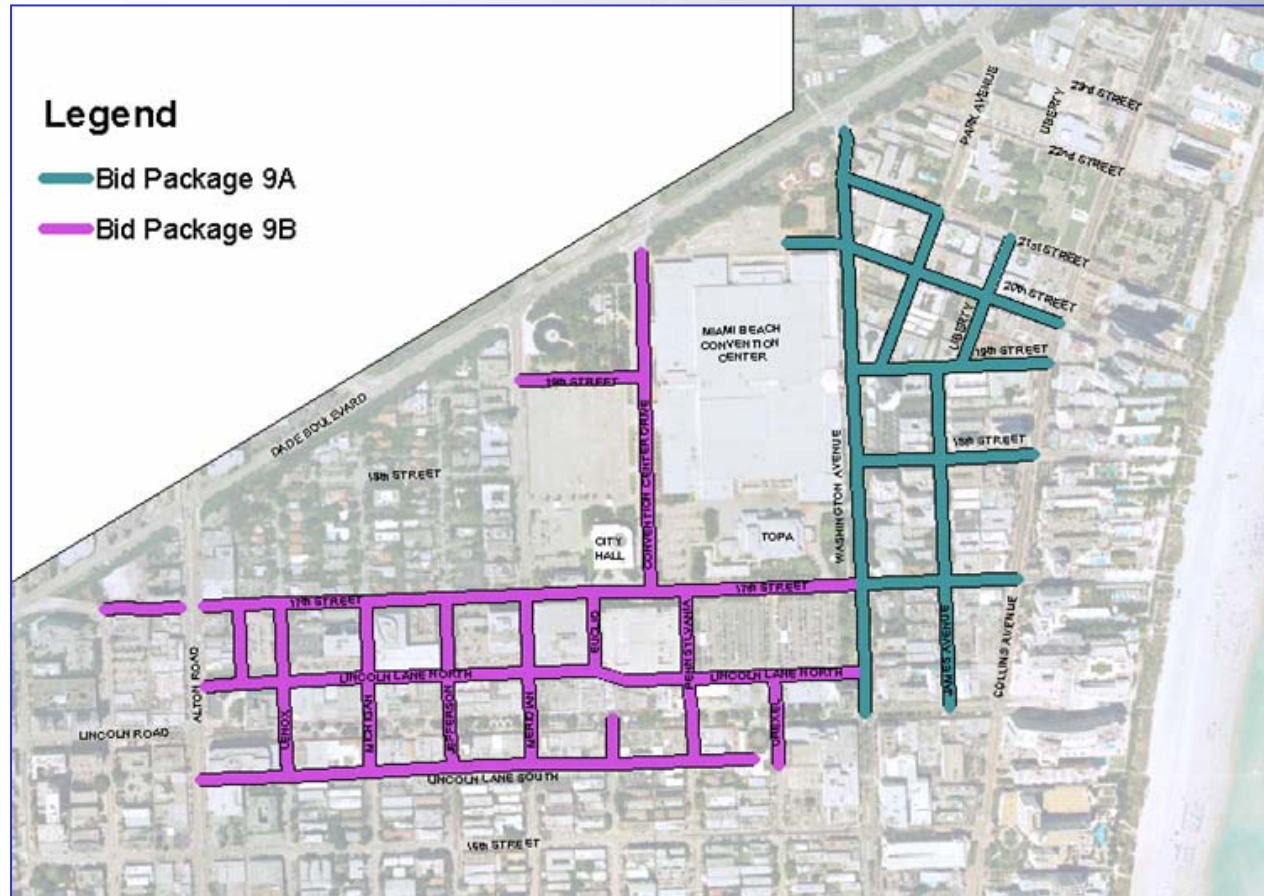


Kittelson & Associates, Inc.
Transportation Planning/Traffic Engineering

Kittelson & Associates

- Thuha Nguyen – Transportation Analyst

City Center – Bid Packages



City Center – Estimated Cost of Recommended Improvements



Construction Item	Bid Package 9A	Bid Package 9B	Overall
Streetscape	\$3,398,000	\$6,821,000	\$10,219,000
Water	\$736,000	\$513,000	\$1,249,000
Stormwater	\$6,015,000	\$0	\$6,015,000
Total	\$10,149,000	\$7,334,000	\$17,483,000
		Budget Target:	\$17,000,000

City Center – Project Goals

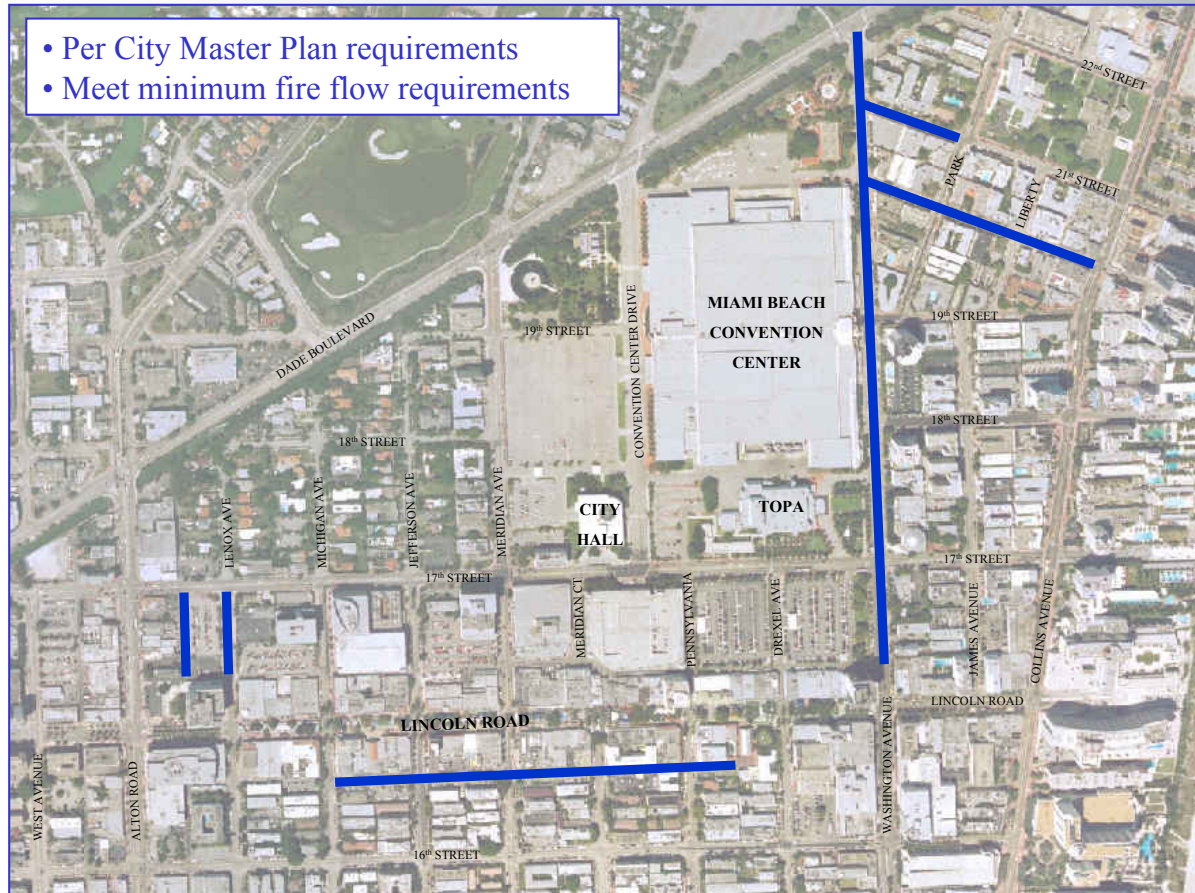


- Replace existing water mains
- Improve stormwater drainage
- Improve pedestrian linkages
- Improve pedestrian safety
- Enhance landscaping
- Enhance pedestrian lighting
- Improve sidewalks and crosswalks
- Resurface roadway pavement

City Center – Water Main Replacement



- Per City Master Plan requirements
- Meet minimum fire flow requirements



Water Main Replacement Locations

City Center – Stormwater Improvements

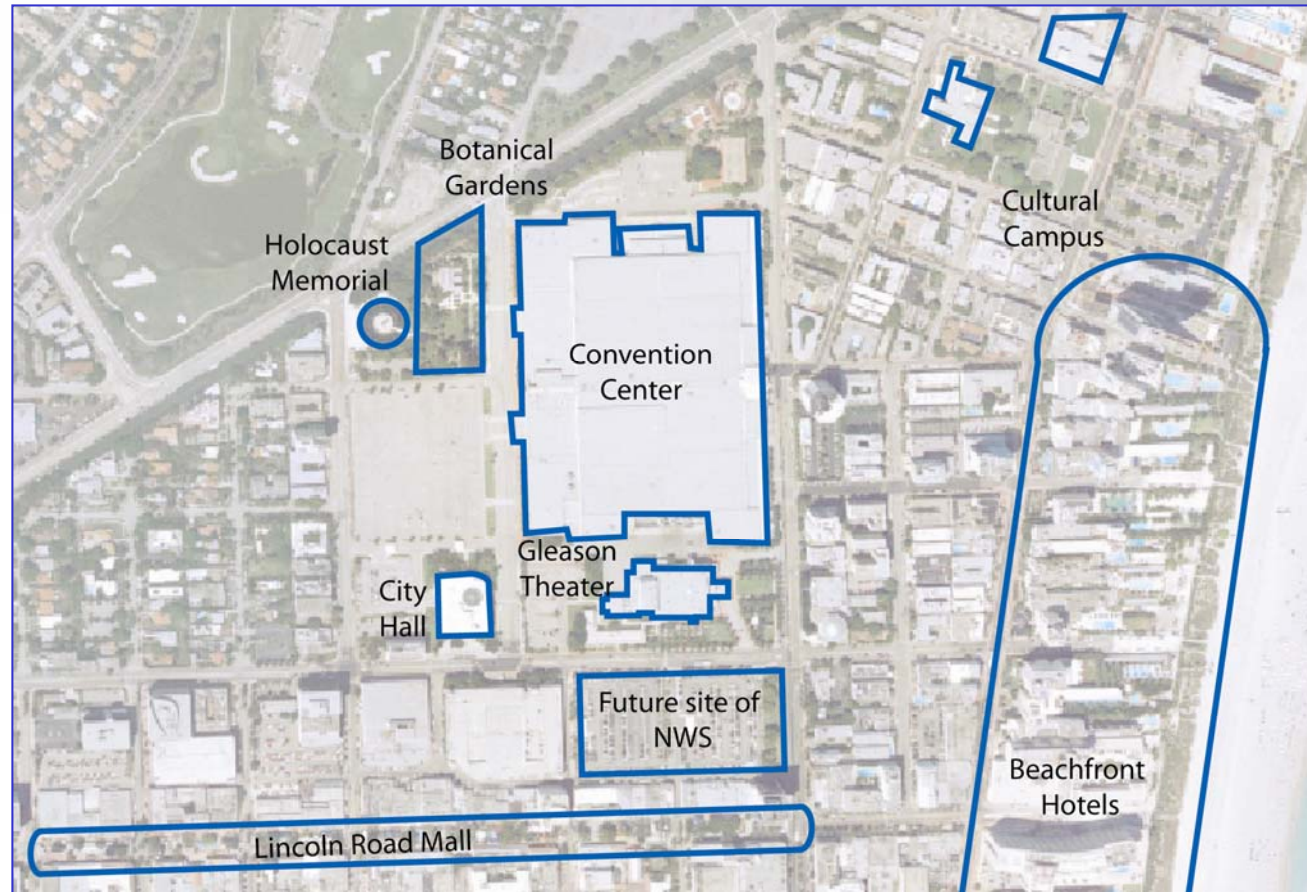


Existing Stormwater System within Basin 23

- City Master Plan identified area to be in need of drainage improvements
- Located within Bid Package #9A
- Layout of drainage improvements to be determined during permitting

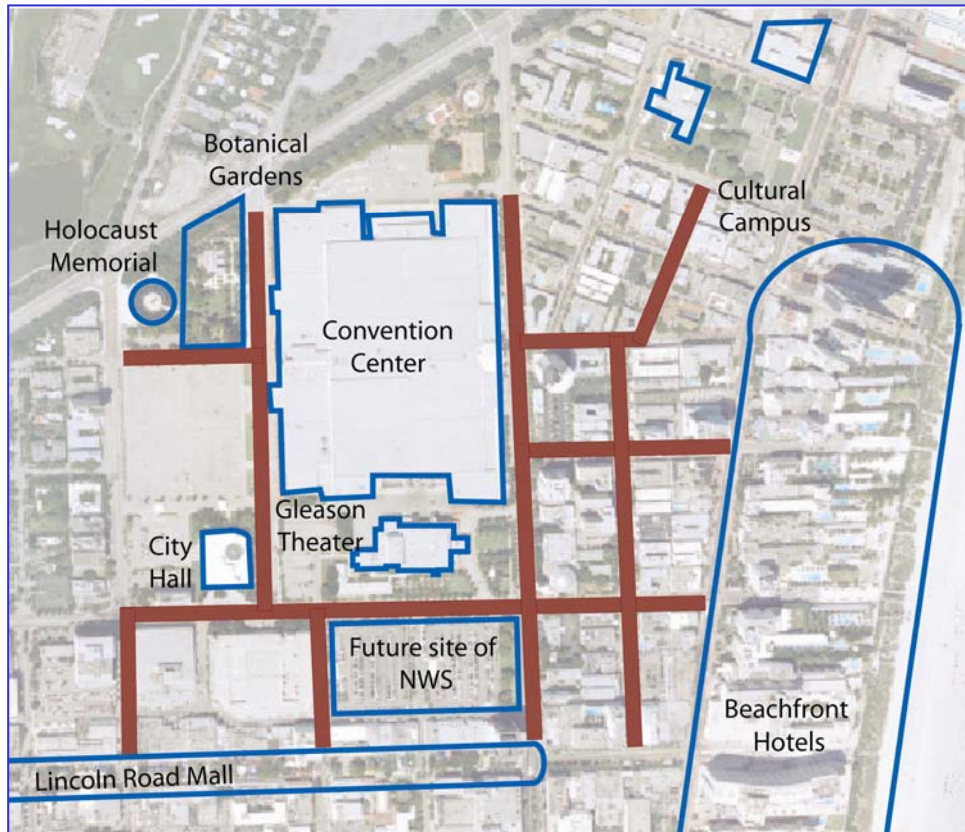
City Center – Streetscaping

Project Analysis – Pedestrian Attractors



City Center – Streetscaping

Project Analysis – Pedestrian Connectors



Plan of Proposed Pedestrian Connectors

Connector Goals:

- Enhance north-south connections between Lincoln Road Mall and Convention Center Area
- Enhance east-west pedestrian connections between beachfront hotels, Convention Center, and other pedestrian attractors
- Add pedestrian ways where currently missing

City Center – Streetscaping

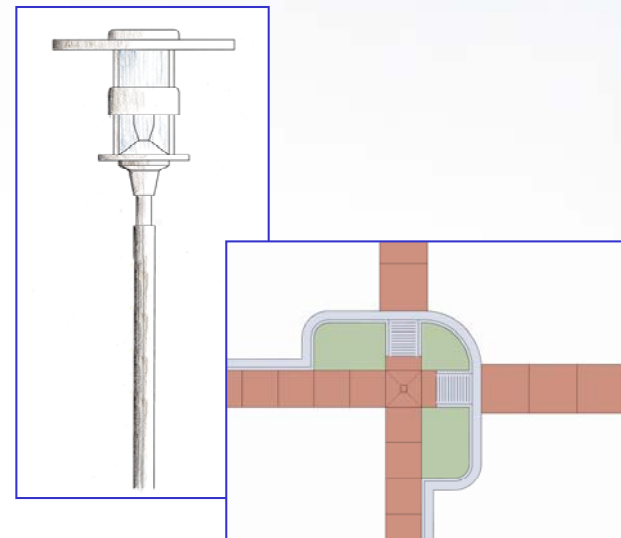
Pedestrian Connectors and Enhancements



Plan of Civic Center Area Improvements

Connector Enhancements:

- Pedestrian Paths include:
 - Miami Beach Red concrete sidewalks
 - Lincoln Road “Satellite” lighting fixtures
 - Enhanced landscaping treatment
- Pedestrian Intersections include:
 - Brick paver crosswalks
 - Cast sidewalk insets



City Center – Streetscaping

Proposed Landscaping – Tree List



Palm Trees

- Median Areas

Royal



Sabal



Washington



Maypan Coconut



Bismarck



Pygmy Date



Veitchia



Shade Trees

- Bumpout Areas
- Swale Areas

Live Oak



Gumbo Limbo



Callophyllum



Pigeon Plum



Buttonwood



Acacia



West Indies Mahogany

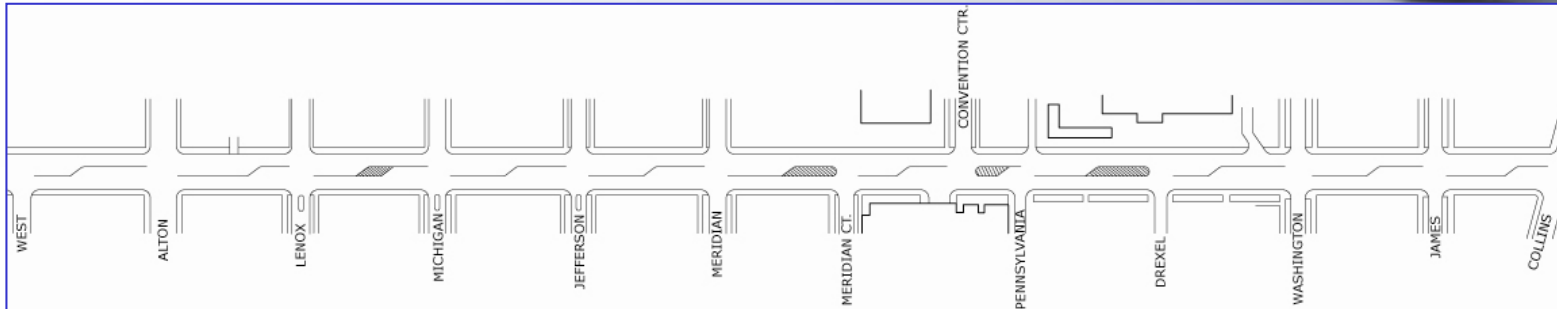


City Center – Streetscaping

17th Street – Existing Conditions



Overall Plan View



- No existing medians
- Poor roadway and sidewalk condition
- Most blocks have left turn lanes at both ends
- Limited median opportunities with existing configuration

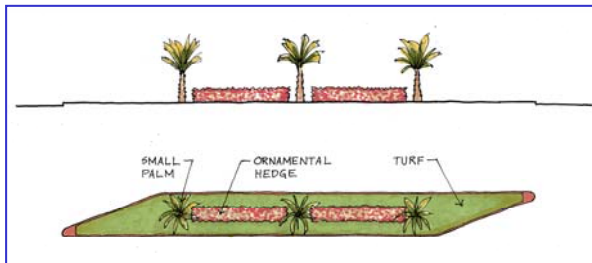
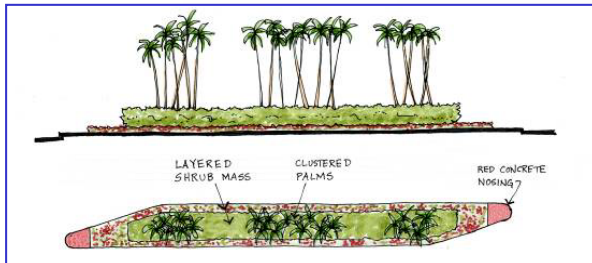
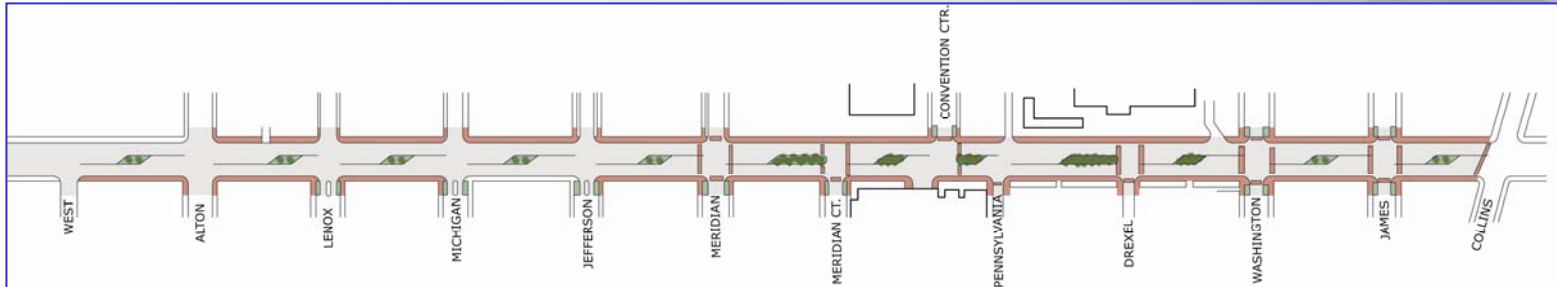


City Center – Streetscaping

17th Street – Proposed Conditions



Overall Plan View



- Add landscaped medians
- Install brick paver crosswalks
- Replace sidewalks along both sides
- Enhance pedestrian lighting
- Resurface asphalt roadway

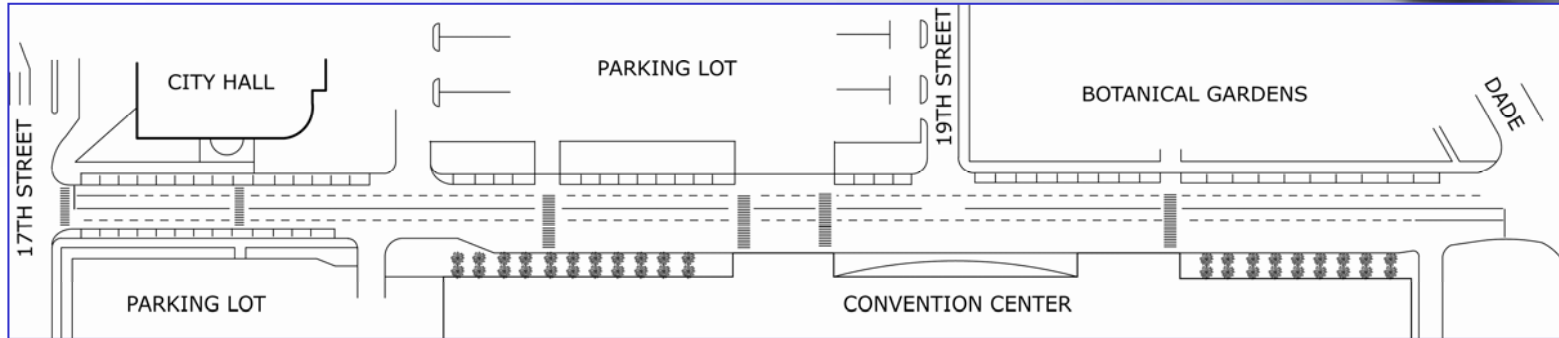


City Center – Streetscaping

Convention Center Drive – Existing Conditions



Overall Plan View



- Non-continuous sidewalk along west side
- All sidewalk not Miami Beach Red Concrete
- No sidewalk along south side of 19th Street
- Minimal landscaping along surface parking

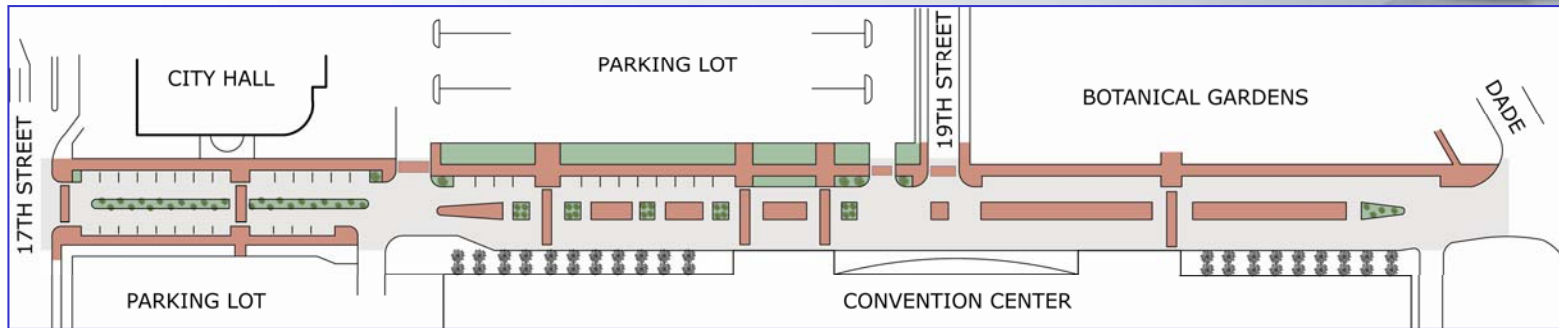


City Center – Streetscaping

Convention Center Drive – Proposed Conditions



Overall Plan View



- Install continuous sidewalk along west side
- Add bump-outs at intersections
- Install brick paver crosswalks
- Install flush brick paver center lane accents
- Add landscaped center median in front of City Hall
- Add periodic square planters in front of Convention Center
- Resurface asphalt roadway

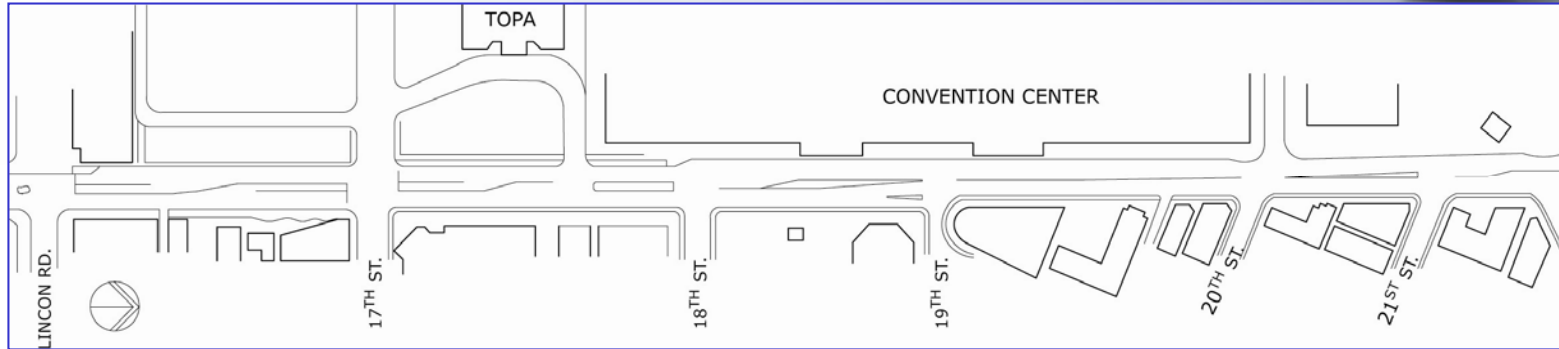


City Center – Streetscaping

Washington Avenue – Existing Conditions



Overall Plan View



- No existing medians
- East side narrows in two locations
- No center turn between 19th and 21st Streets
- Few median opportunities at north end

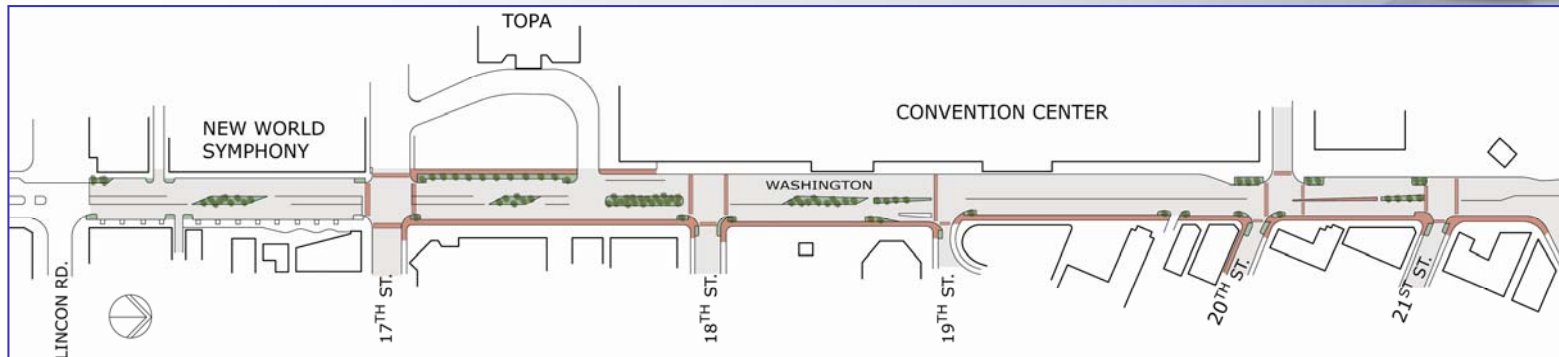


City Center – Streetscaping

Washington Avenue - Proposed Conditions



Overall Plan View



- Replace sidewalk
- Add bump-outs at intersections
- Install brick paver crosswalks
- Add landscaped center median
- Enhance pedestrian lighting
- Resurface asphalt roadway

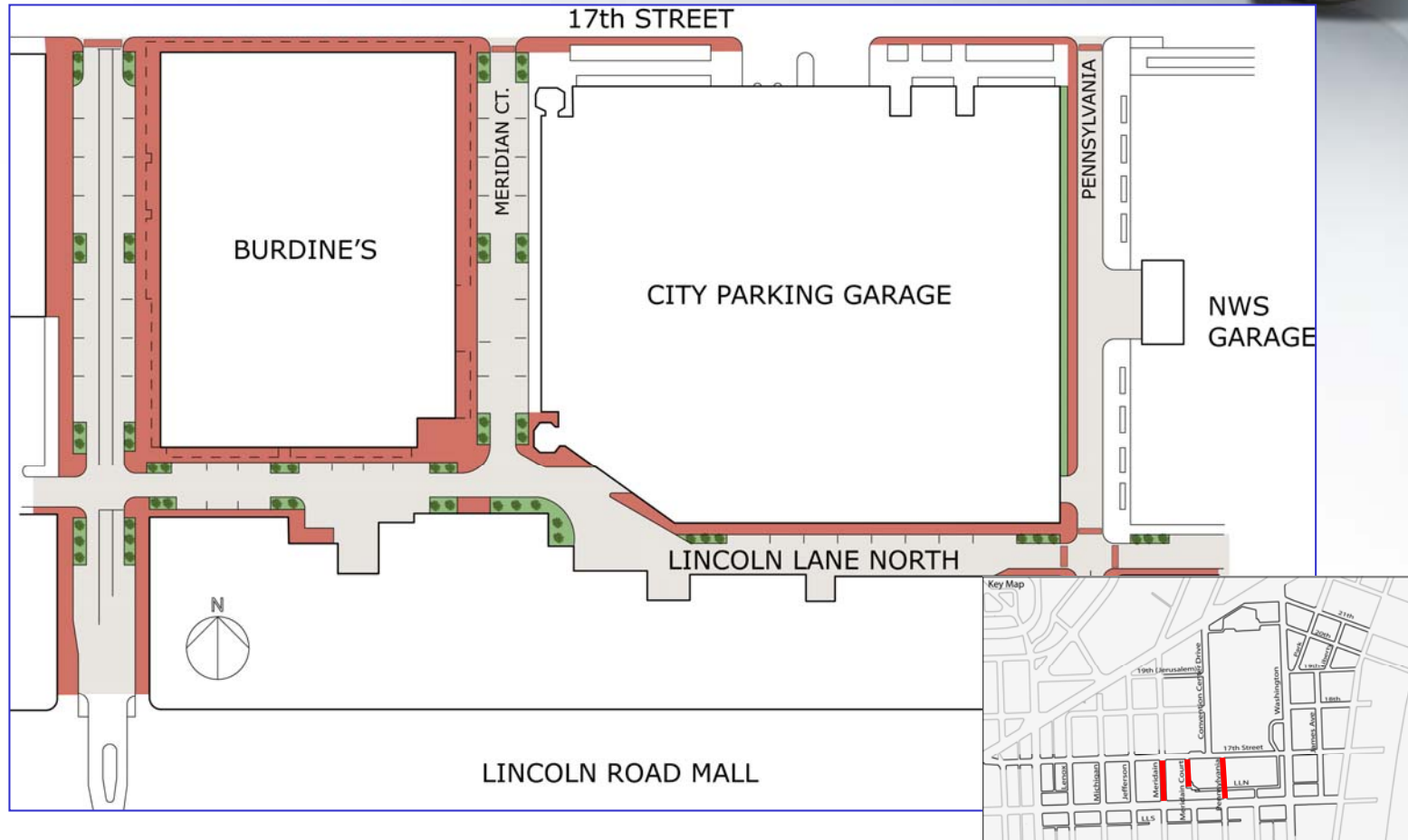


City Center – Streetscaping

Meridian Avenue, Meridian Court, and Pennsylvania Avenue



Plan View of Proposed Conditions

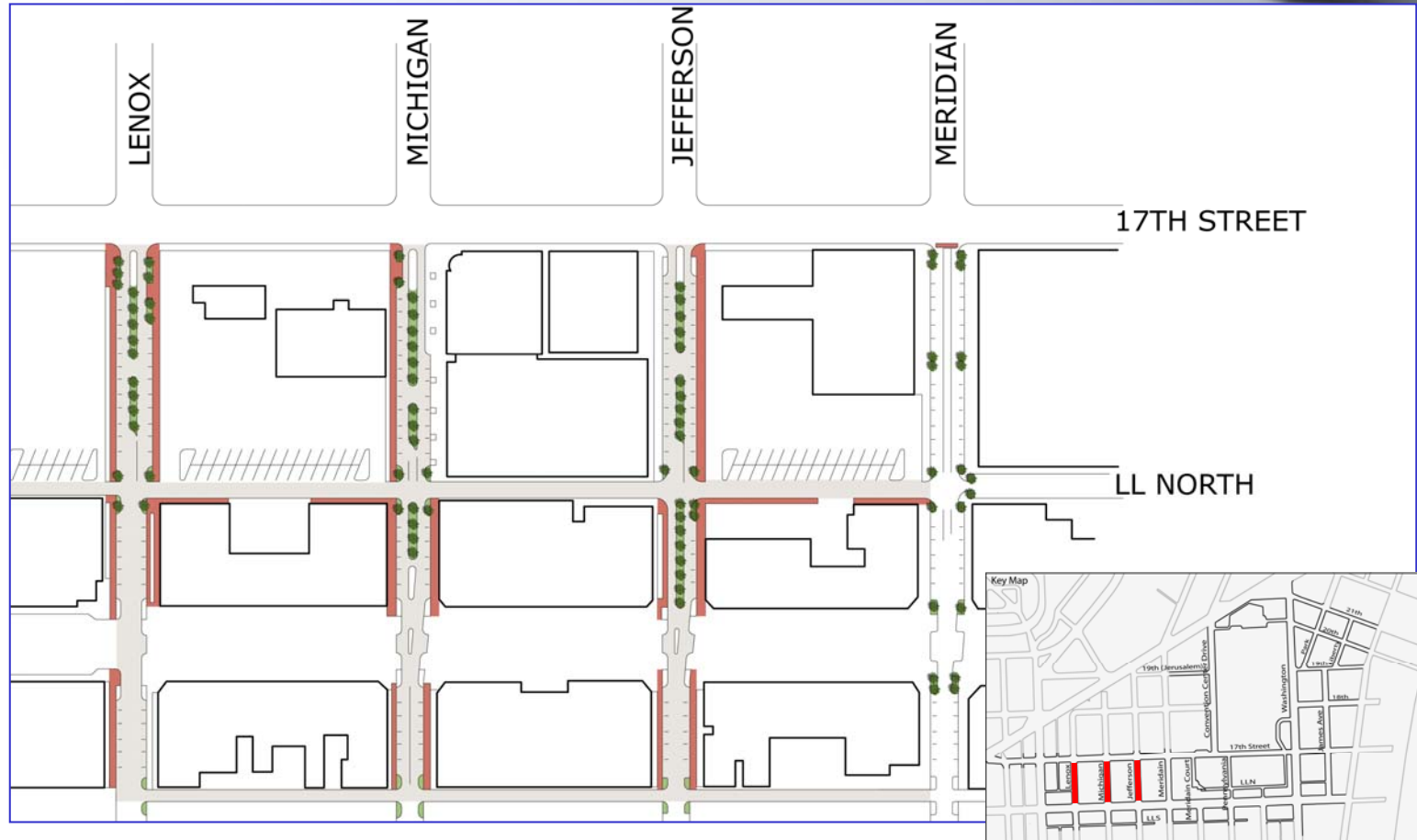


City Center – Streetscaping

Lenox Avenue, Michigan Avenue, and Jefferson Avenue



Plan View of Proposed Conditions

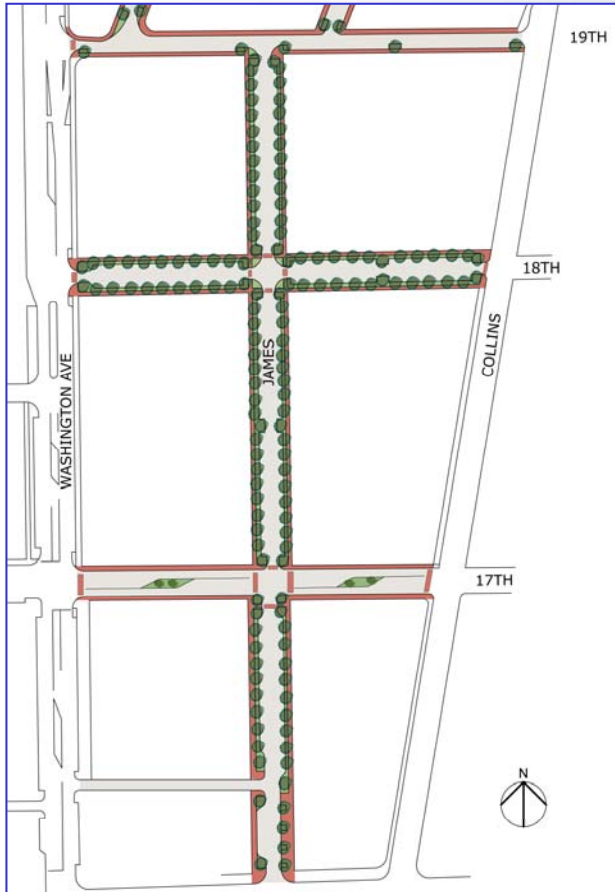


City Center – Streetscaping

James Avenue and 18th Street



Overall Plan View



- Replace sidewalk
- Add bump-outs
- Add landscaping
- Enhance pedestrian lighting
- Resurface asphalt roadway

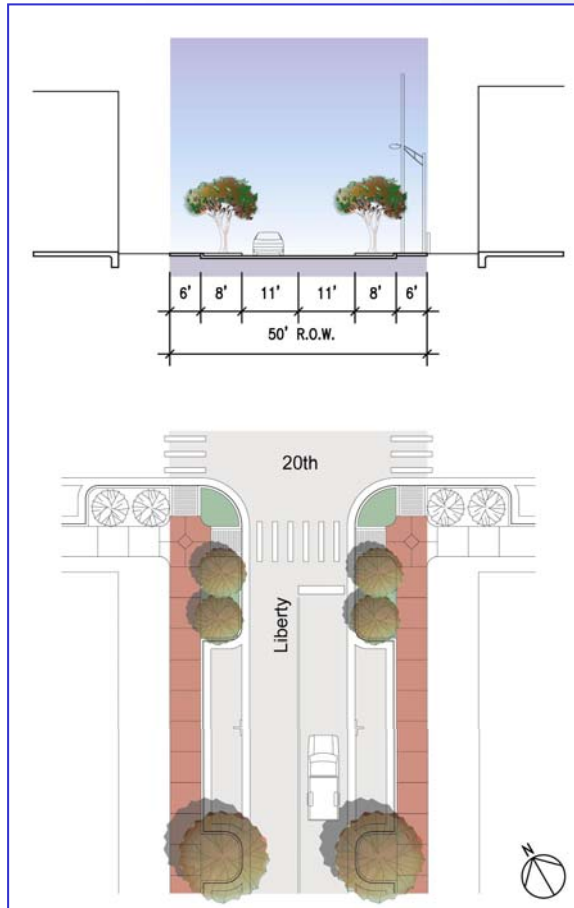


City Center – Streetscaping

Northeast Neighborhood Streets



Proposed Section View



Overall Plan View



- Replace sidewalk
- Add bump-outs
- Add landscaping
- Enhance pedestrian lighting
- Resurface asphalt roadway



City Center – Project Schedule



Project Phase	Completion Date
Planning	February 2006
Design	April 2007
Procurement	October 2007
Construction	October 2009

City Center – Roundabout

Analysis of 17th Street & Washington Avenue Intersection



Roundabout – Issues of Concern:

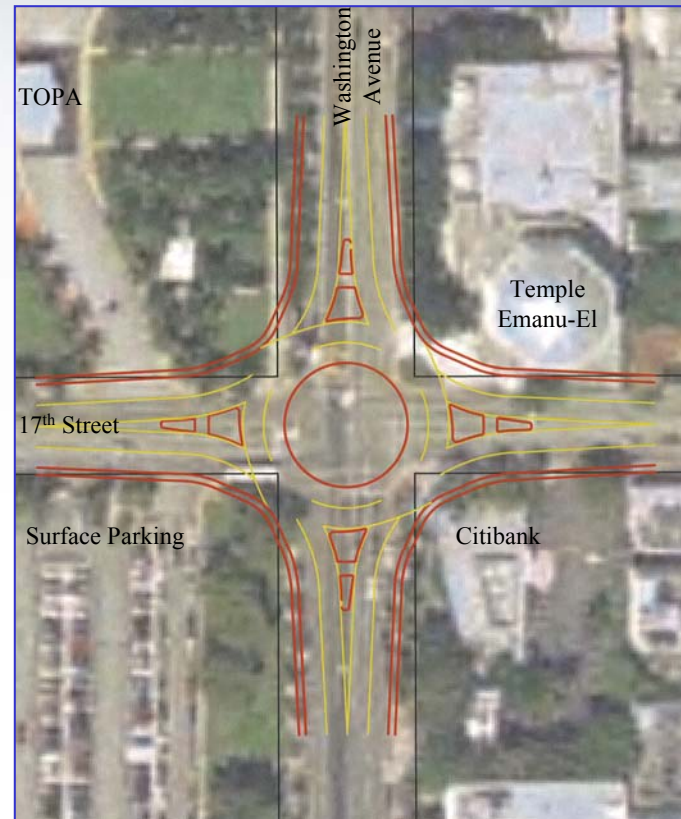
- Intersection of large arterial roadways
- 2-lane roundabout required due to traffic
- Existing Right of Way Limits
Washington Avenue : 100 feet wide
17th Street : 70 feet wide
Intersection Diagonal : 122 feet corner to corner
- Minimum roundabout size per Federal Highway Administration Publication #FHWA-RD-00-067 :
Outer Diameter : 150 feet
Inner Diameter : 90 feet
- Standard roundabout not feasible at intersection:
Existing buildings do not allow adequate space for the minimum roundabout configuration



Citibank



Temple Emanu-El



Minimum Roundabout Layout

City Center – Open Forum



- Comments from public